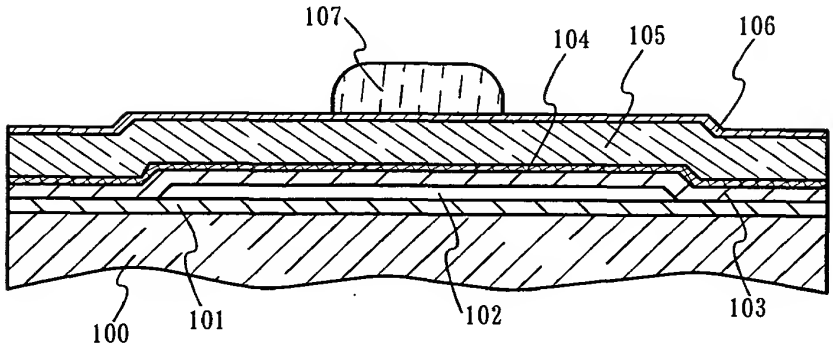

Fig. 1A

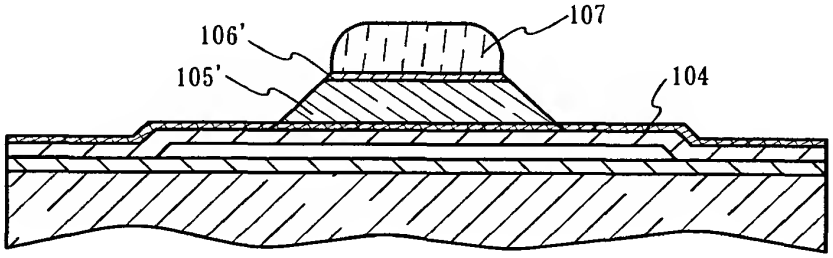

Fig. 1B

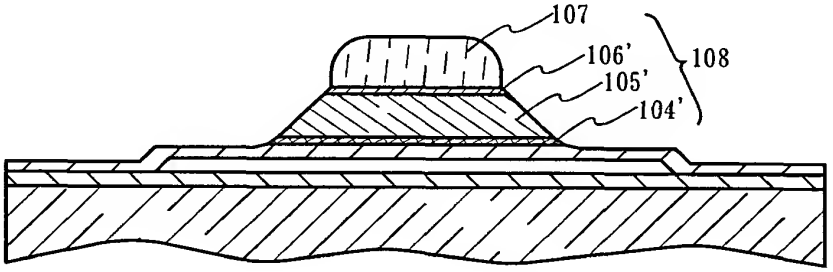

Fig. 1C

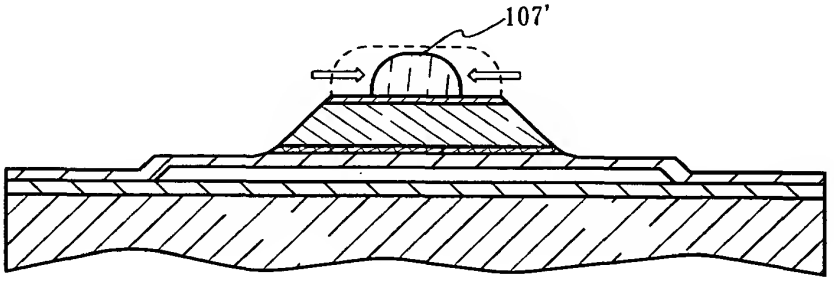

Fig. 1D

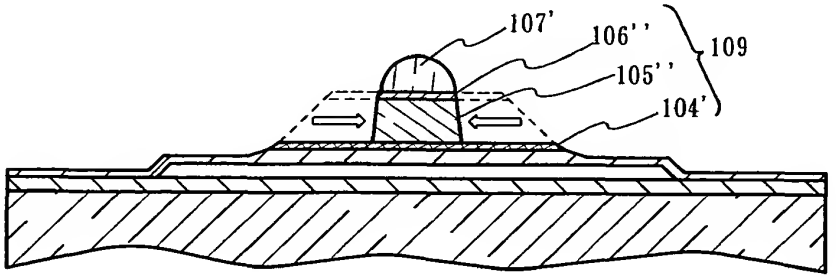

Fig. 1E

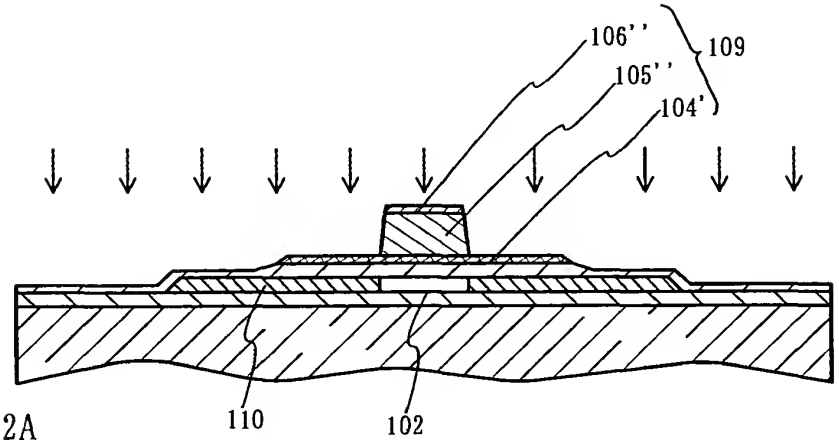

Fig. 2A

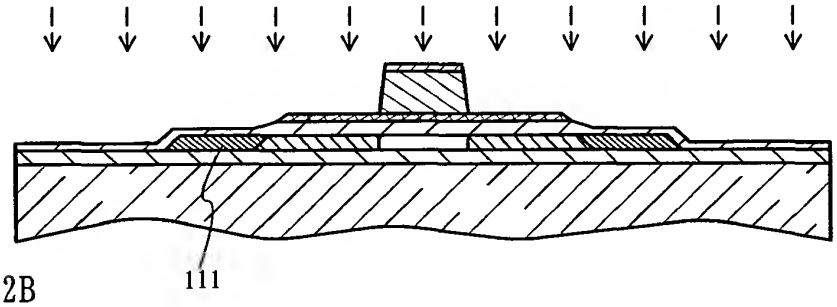

Fig. 2B

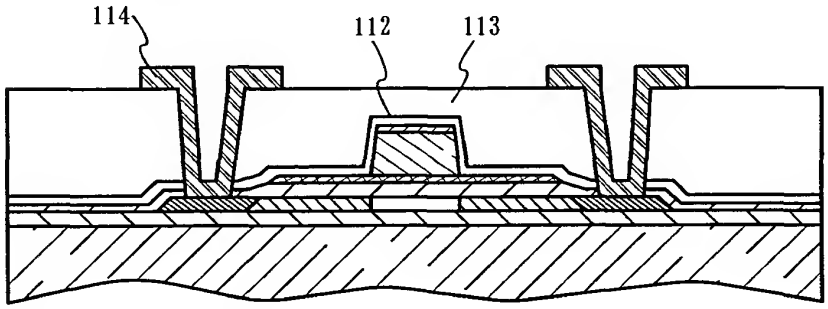

Fig. 2C

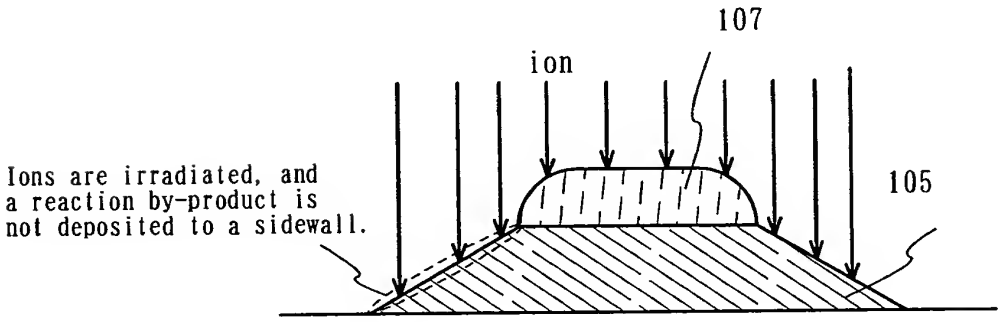

Fig. 3A

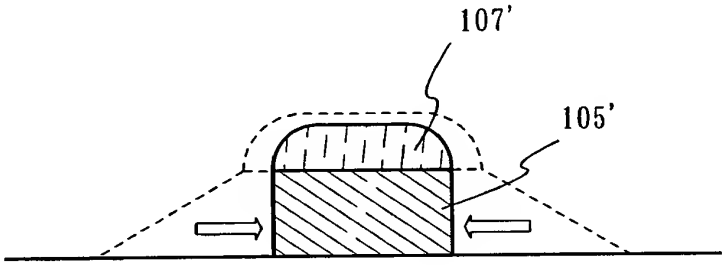

Fig. 3B

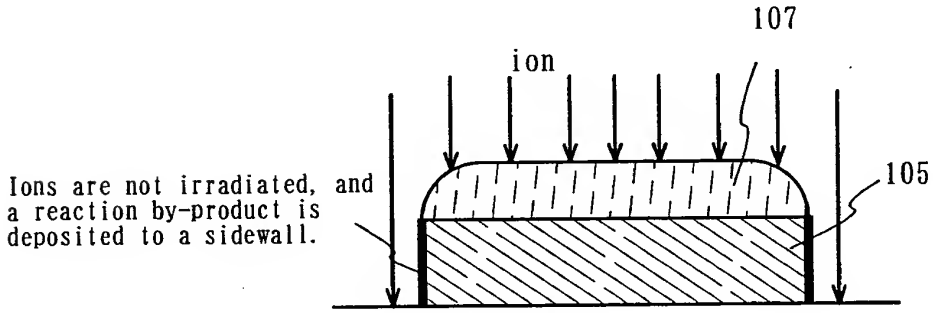

Fig. 4A

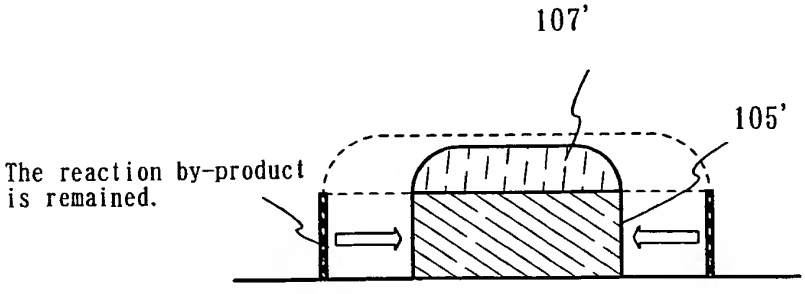

Fig. 4B

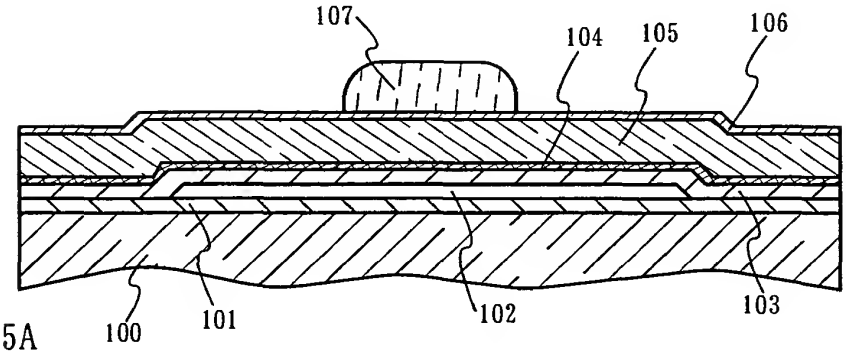

Fig. 5A

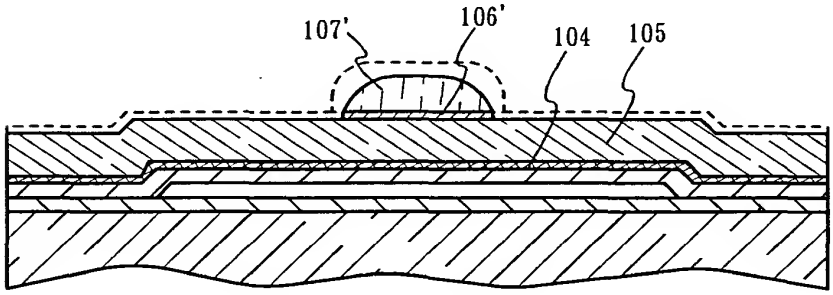

Fig. 5B

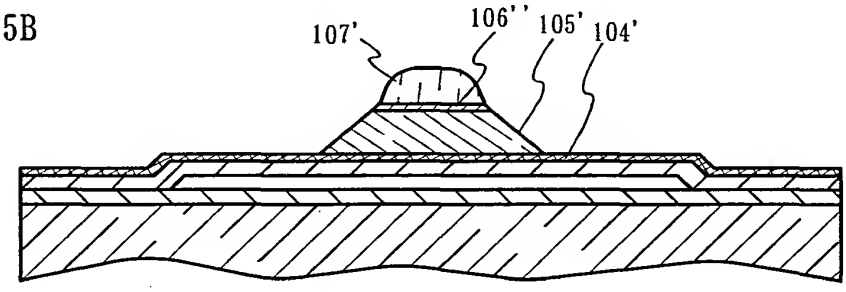

Fig. 5C

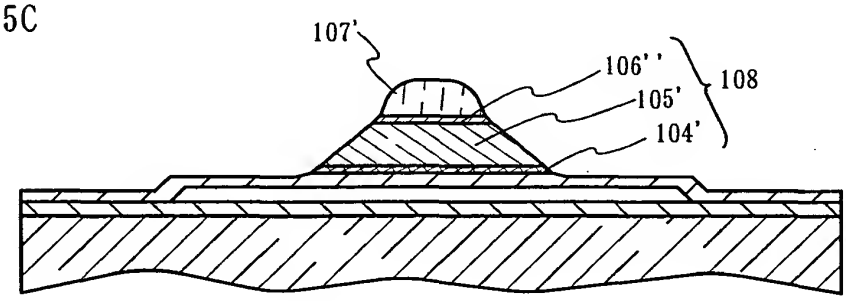

Fig. 5D

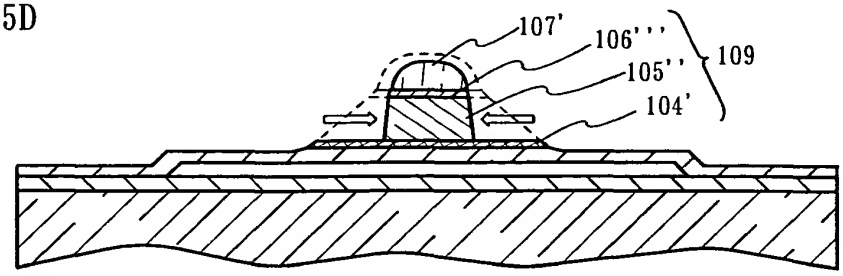

Fig. 5E

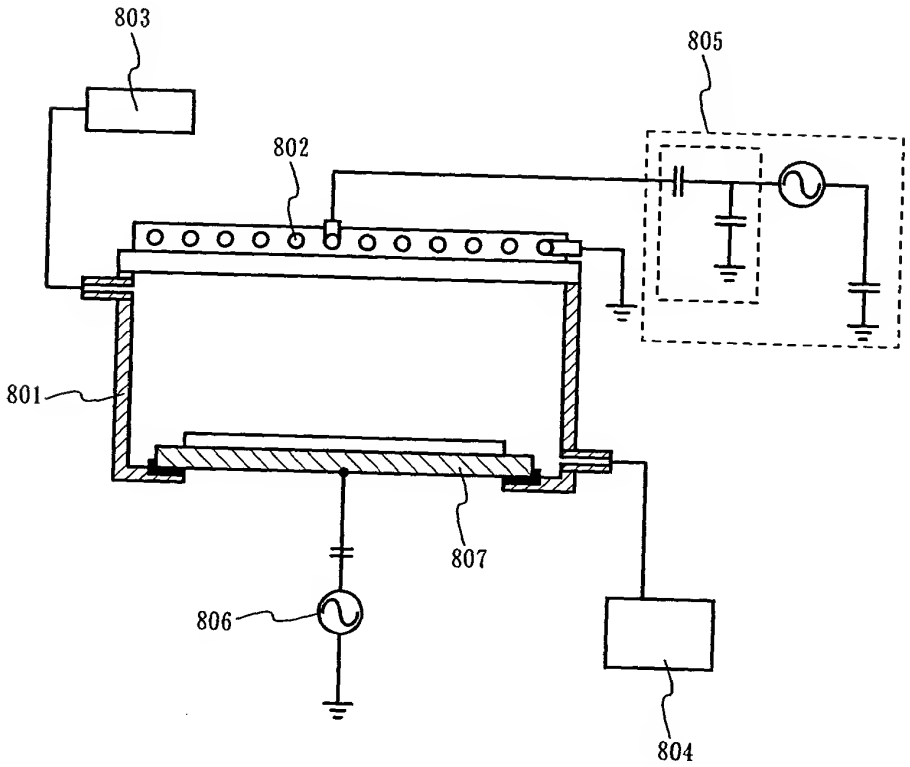

Fig. 6

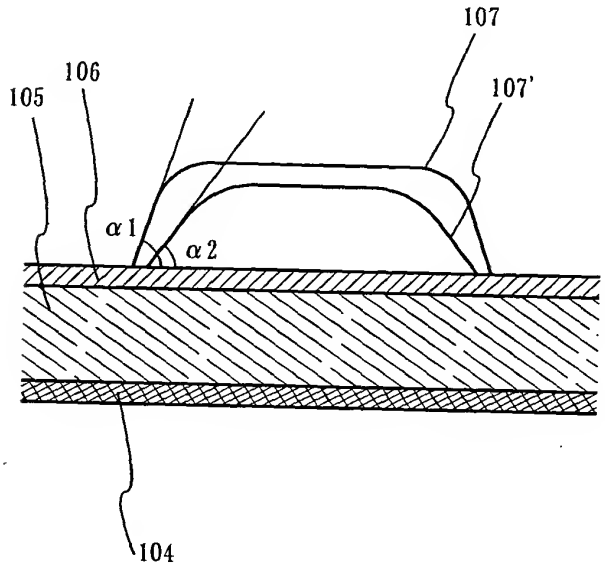

Fig. 7

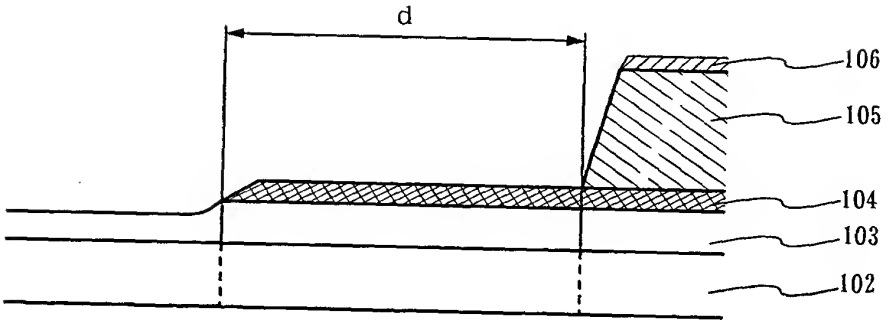

Fig. 8

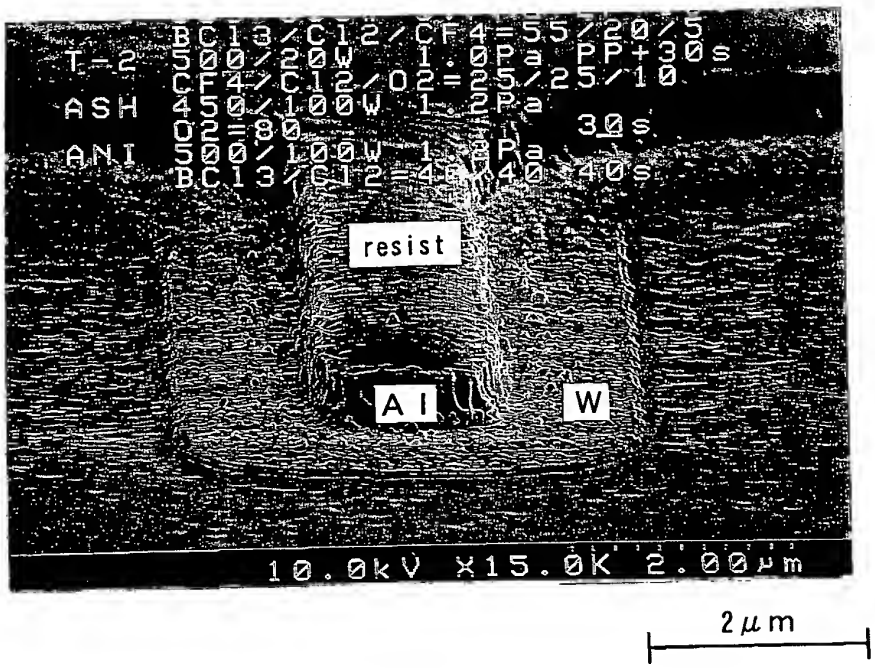
BCl3/Cl2/CF4=55/20/5
T-2 500/20W 1.0Pa PP+30s
CF4/Cl2/O2=25/25/10
ASH 450/100W 1.2Pa
O2=80 30s
ANI 500/100W 1.2Pa
BCl3/Cl2=45/40 40s
resist
Al
W
10.0kV X15.0K 2.00μm
2μm

FiG. 9

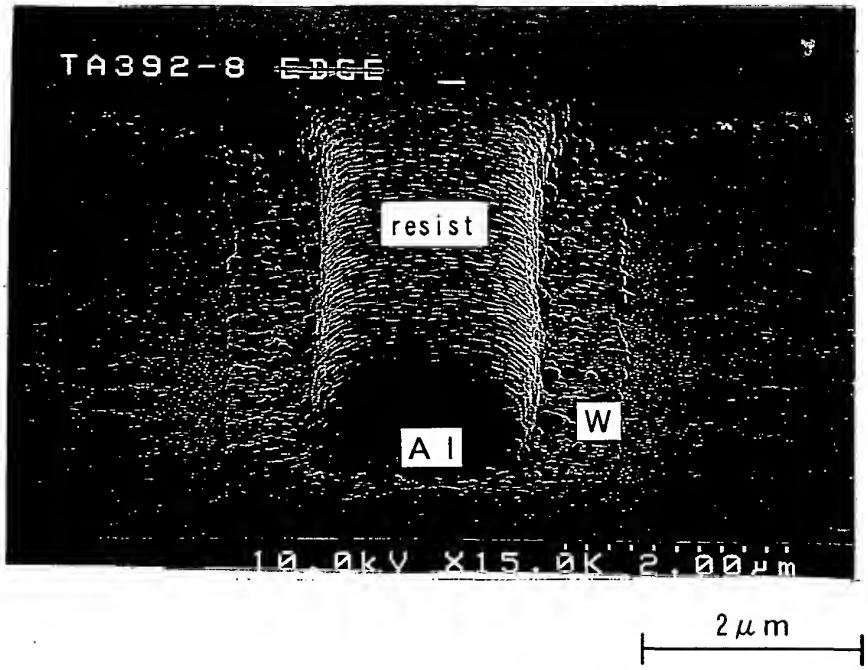

FiG. 10

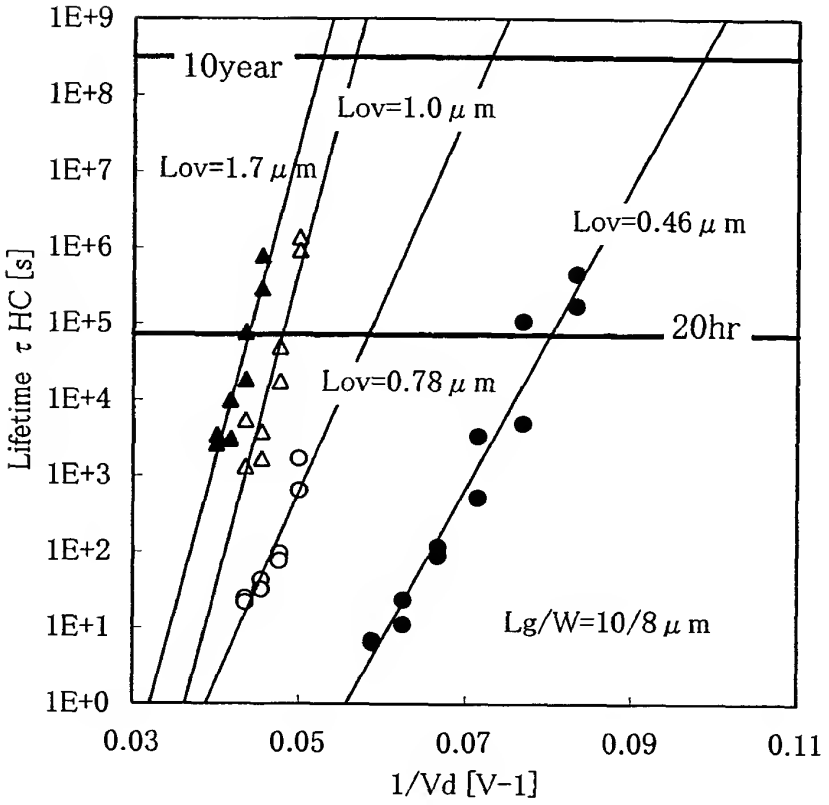
1E+9
1E+8
1E+7
1E+6
1E+5
1E+4
1E+3
1E+2
1E+1
1E+0
Lifetime τ HC [s]
10year
20hr
Lov=1.0 μ m
Lov=1.7 μ m
Lov=0.46 μ m
Lov=0.78 μ m
Lg/W=10/8 μ m
0.03
0.05
0.07
0.09
0.11
1/Vd [V-1]

FiG. 11

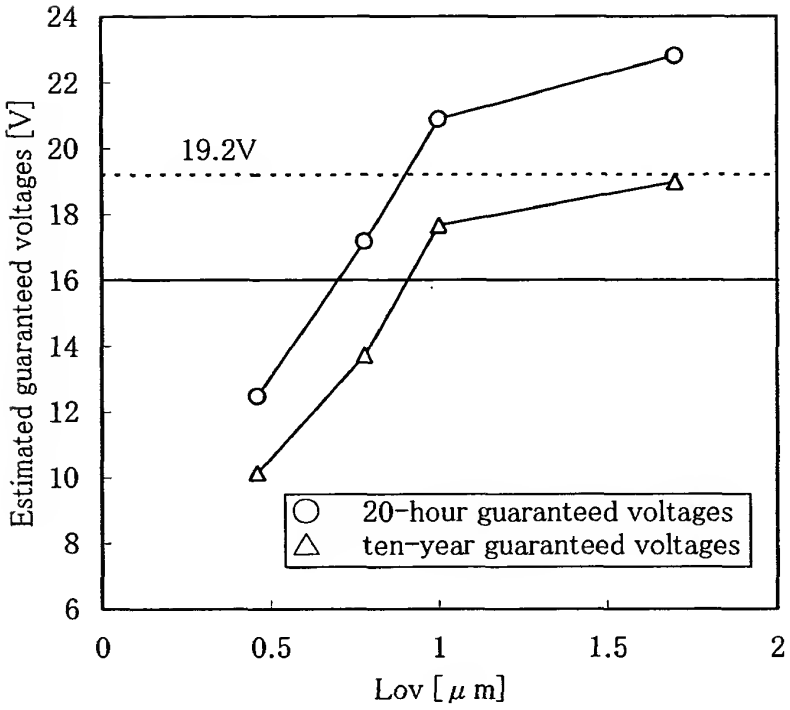
24
22
20
18
16
14
12
10
8
6
19.2V
Estimated guaranteed voltages [V]
20-hour guaranteed voltages
ten-year guaranteed voltages
0
0.5
1
1.5
2
Lov [μm]

FiG. 12

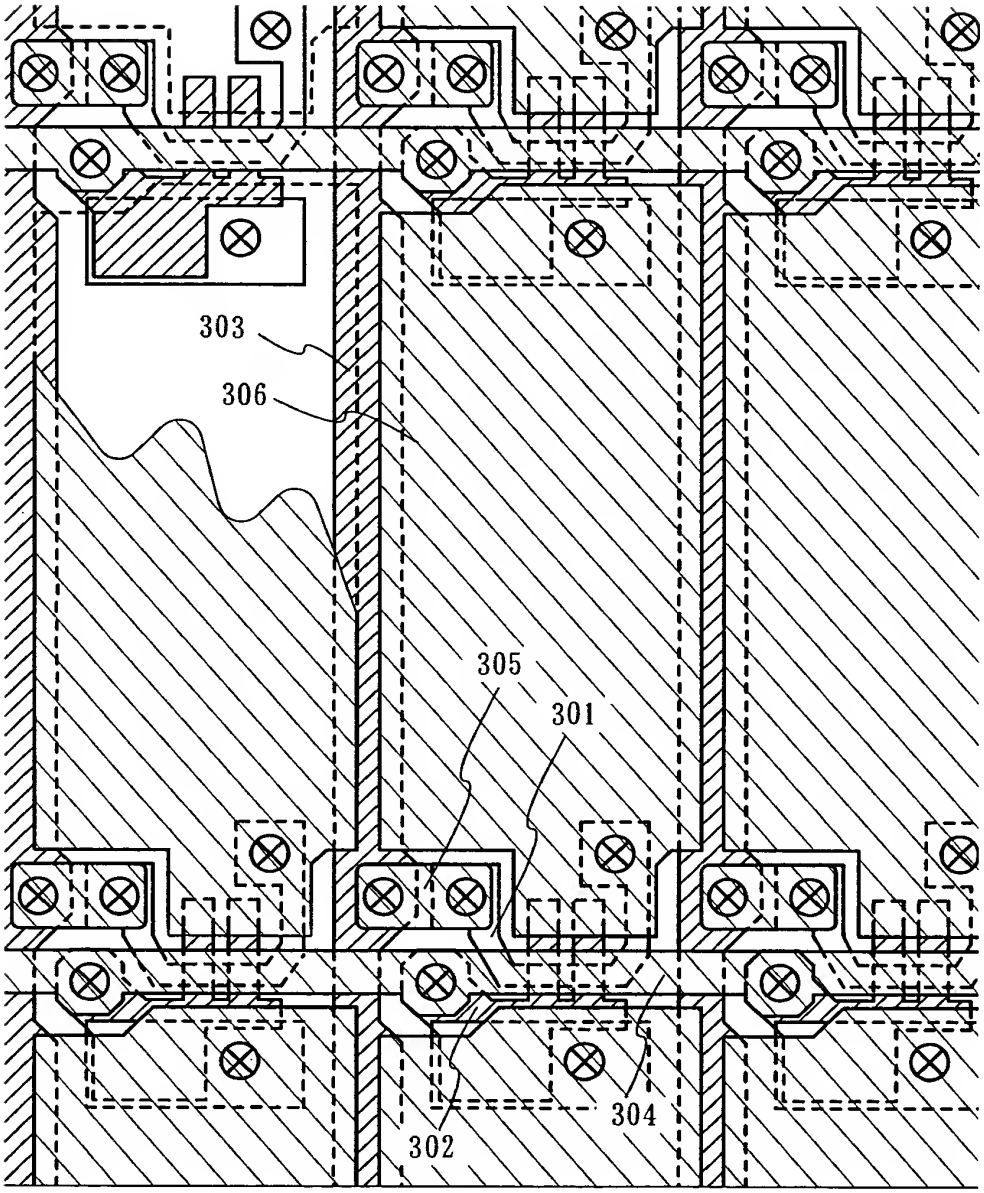

FiG. 13

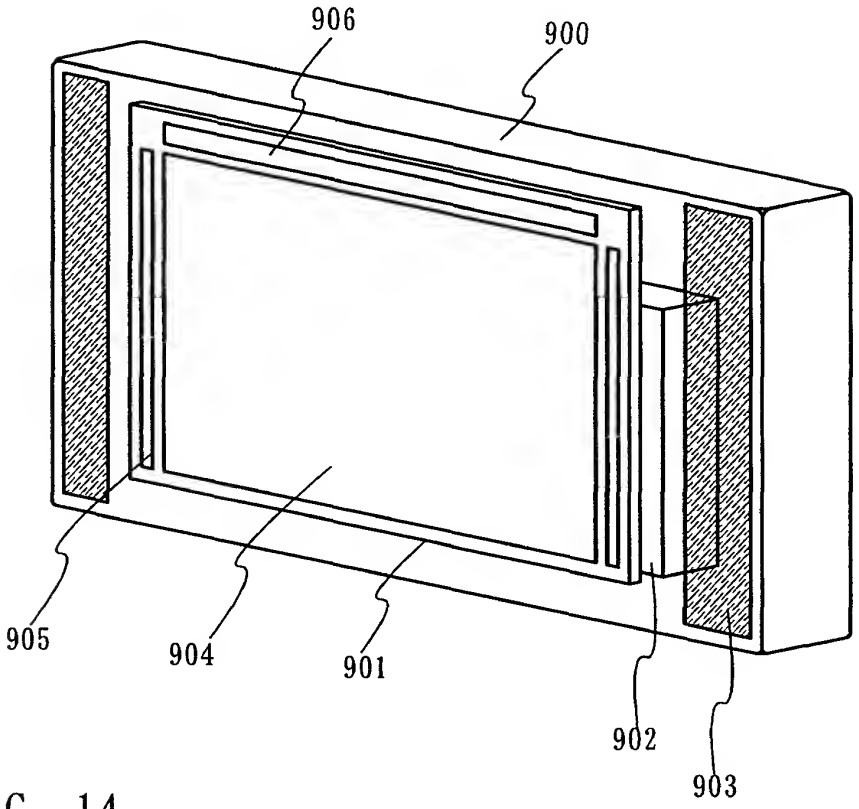

FiG. 14